

TEAM MINUTES - 10/9/20

Location: Zoom
Present: ALL
Time: 2:30-3:45
Writer: Jaden Cavender

Agenda Items

1. Met with Martin to discuss design ideas and changes.
2. Discussed Ben's ideas. Seems very viable for prototyping, but of concern is maintaining energy, flow and pressure head. Using fluid simulation can clear concerns before prototyping.
3. Discussed Jaden's ideas. Using a turbine will cause major energy loss and may mandate using another pump. Also, a circular sprayer part is somewhat limited and may complicate design and effectiveness. Augur can be useful but will require verification.
4. Discussed Blake's ideas. Cheese grate style ramp may clump particles into different piles, maintaining sand banding. Gravitational energy can assist in separation process.
- 5.
- 6.

| Action Items | Owner(s) | Deadline | Status |
|---|------------|----------|-------------|
| Fluid Simulation | Jaden | 10/21 | In Progress |
| Fluid Simulation | Ben | 10/21 | In progress |
| Investigate Rhino/grasshopper | Tobias | 10/15 | In Progress |
| Remake Screen design in CAD | Tayson | 10/15 | In Progress |
| Create Snapshot PPT, Analyze ramp idea in CAD | Blake | 10/15 | In Progress |
| Research water filter designs. | Full Group | 10/30 | In progress |

